AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

Serial Number: 10/730,760

Filing Date: December 8, 2003

Title: TRENDED MEASUREMENT OF CARDIAC RESYNCHRONIZATION THERAPY

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IN THE SPECIFICATION

Please amend the paragraph beginning on page 25, line 14 as follows:

In the second case illustrated in Table 1, the CRM device is operated only in non-tracking modes. CRT was successfully delivered 0% of the time while the PG was operating in a non-tracking mode. A physician or clinician may likely determine that it is warranted to modify parameters to improve CRT delivery success in non-tracking modes.

Please amend the paragraph beginning on page 28, line 20 as follows:

CRT-related data corresponding to the status of the CRT is measured by the CRM device. This measured data is referred to herein as raw CRT-related data. CRT-related data trends are capable of being displayed on a monitor of the programmer. Various embodiments process the raw CRT-related data in the CRM device and store processed data in the CRM device. Various embodiments store the raw CRT-related data in the CRM device and process this data in the programmer. Various embodiments process the raw CRT-related data partially in the CRM device and partially in the programmer.

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Please amend the paragraph beginning on page 30, line 30 as follows:

FIG. 6 illustrates a programmer or a portable APM device such as can be used in the system of FIG. 4, according to various embodiments of the present subject matter. To simply simplify the discussion with respect to FIG. 6, the programmer or portable device is referred to simply as the programmer 603. The illustrated programmer includes a processor or controller 613 to communicate with a memory 614, a display 615, input / output devices 616 such as a speaker, mouse, keyboard and the like, a transceiver 617 such as telemetry circuitry, and a communication interface 618 such as a network adapter for wired or wireless communication. The recorded CRT-related data from the CRM device, which corresponds to the chronic, ambulatory status of the CRT, is capable of being stored in the memory of the programmer. In various embodiments, the programmer memory 614 stores computer-readable instructions to be executed by the processor to process the data into trends and to display the trended data on the programmer monitor. Furthermore, software allows a physician or clinician to select the desired trended data to be displayed on the programmer monitor. For example, an embodiment of the software provides a programmer display screen similar to the screen display illustrated in FIG. 7.